

Burns & McDonnell **CHP System Team**

Capital Cost Reduction

Shorter & Less Expensive Installation

Replicability

System designs are suitable for multiple applications in

Optimize Facility Energy Use

Simplified Systems

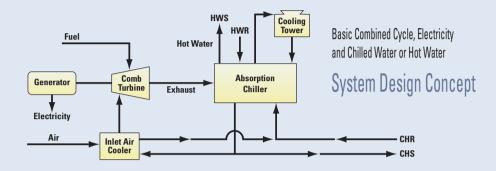
Modularity

This system can be built up in modular increments matched to your facility needs, and can be easily expanded as the need arises.

Experience the Benefits -Become a Demonstration Site

Project Overview

Burns & McDonnell has teamed with Broad USA, Solar Turbines and Austin Energy to develop a modular system that integrates on-site/near-site power generation and thermally activated technologies to serve a micro utility grid in Austin Texas.











Objectives

- Energy uses for prototype Integrated Energy System (IES):
 - Electricity to local area and electric grid
 - Chilled water for air conditioning and inlet air cooling for gas turbine
 - Space heating for IES plant
- Cost savings through efficiency: 70%-80%
- Integrated control system that will allow ease of operations and remote monitoring
- Modular design will be adaptable to meet various capacity requirements, space limitations, and grid interconnection
- Improve reliability with proven on-site generation technologies that isolate facilities from grid power quality problems and outages

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